

SUBDIVISION & ENTRANCE DESIGN TOP TEN MOST FREQUENTLY SEEN ERRORS

1. Proper R/W dedication

Solution – Link to functional classification map and chart for dedication based on functional classification.

Functional Classification Map -

http://www.deldot.gov/information/pubs_forms/func_maps/pdf/functional_classification.pdf

Subdivision Manual - Section 3.6.5 Figure 3-3 *Minimum Standards for Total Roadway Right of Way*.

http://www.deldot.gov/information/pubs_forms/manuals/subdivisions/pdf/subdivision_manual_bookmarked_100209.pdf#top_ten_11

2. Outdated details

Solution – link to Design Resource Center and latest standard details page.

http://www.deldot.gov/information/pubs_forms/const_details/2008/index.shtml

3. Turn lane striping

Solution – Subdivision Manual - link to page 99, figure 5-9 and page 101, figure 5-11.

http://www.deldot.gov/information/pubs_forms/manuals/subdivisions/pdf/subdivision_manual_bookmarked_100209.pdf#top_ten_12

http://www.deldot.gov/information/pubs_forms/manuals/subdivisions/pdf/subdivision_manual_bookmarked_100209.pdf#top_ten_13

4. Stone under or behind curb

Clarification – 6" minimum of GABC, Type B under curb and extends 6" behind back of curb.

Working with Standards committee to add as a standard. Standard note placed on plans - Under the curb detail, it will need to be shown or noted that the curb is to be placed over 6-inches of GABC – Type B over proof rolled and compacted subgrade, 95 % ASTM D1557. The GABC – Type B will need to extend 6-inches from the back of curb.

5. Pavement thickness

Solution –There are minimum and maximum lift thickness for each type of hot-mix, see Fig. 5-25. page 121 Section 5.6 Pavement Sections.

Thickness of lift of Type C – 1 ¼" – 2"

Thickness of lift of Type B – 2 ¼"- 3"

http://www.deldot.gov/information/pubs_forms/manuals/subdivisions/pdf/subdivision_manual_bookmarked_100209.pdf#top_ten_14

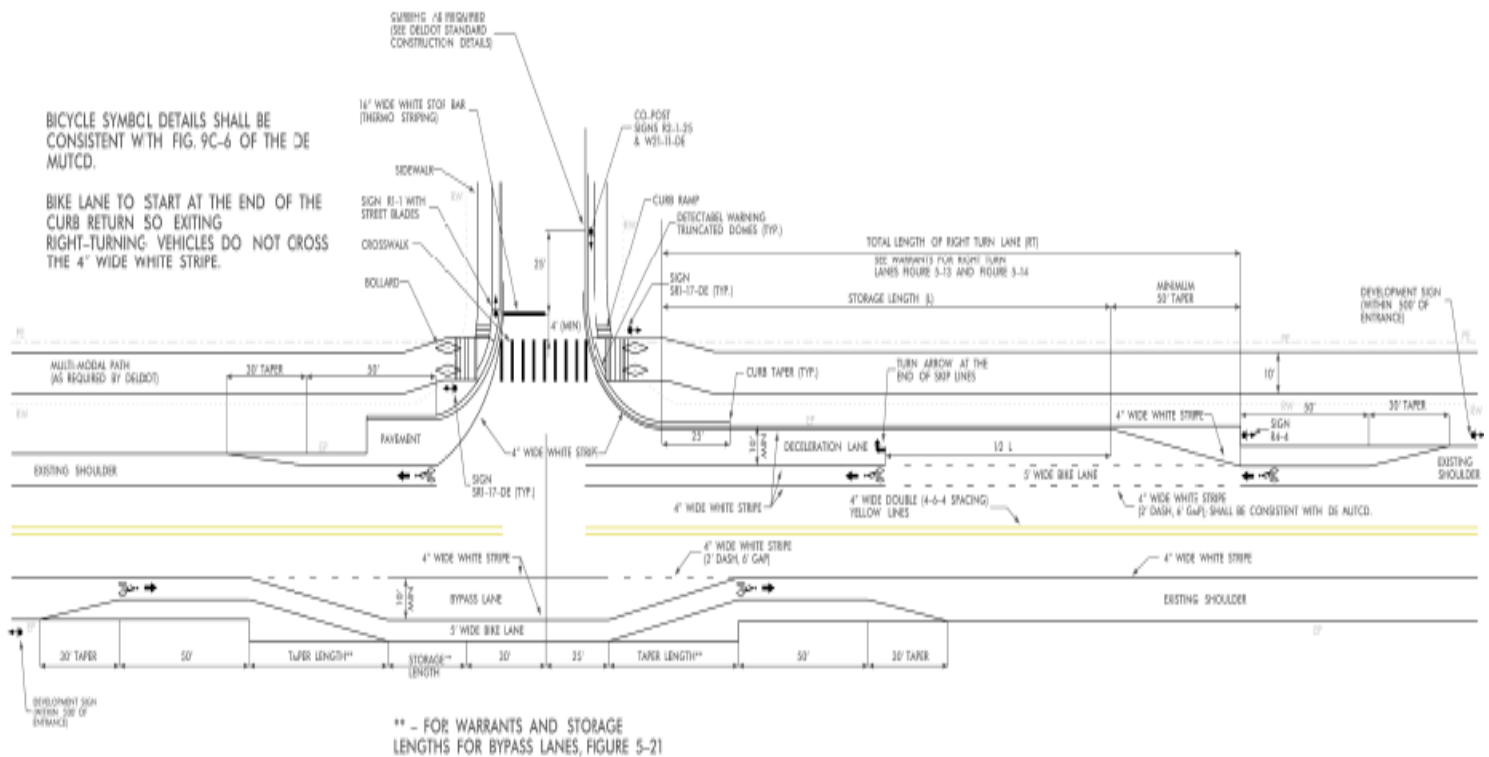
6. Bike Lane Requirements

On April 24, 2009, Governor Jack A. Markell signed into effect Executive Order No. 6. This Executive Order directed the development and adoption of a Statewide Complete Streets Policy. Solution – Link to Bike route map.

http://www.deldot.gov/information/community_programs_and_services/bike/biking_in_delaware/maps.shtml

see updated figure 5-9 below, this will be in the first revision to the manual.

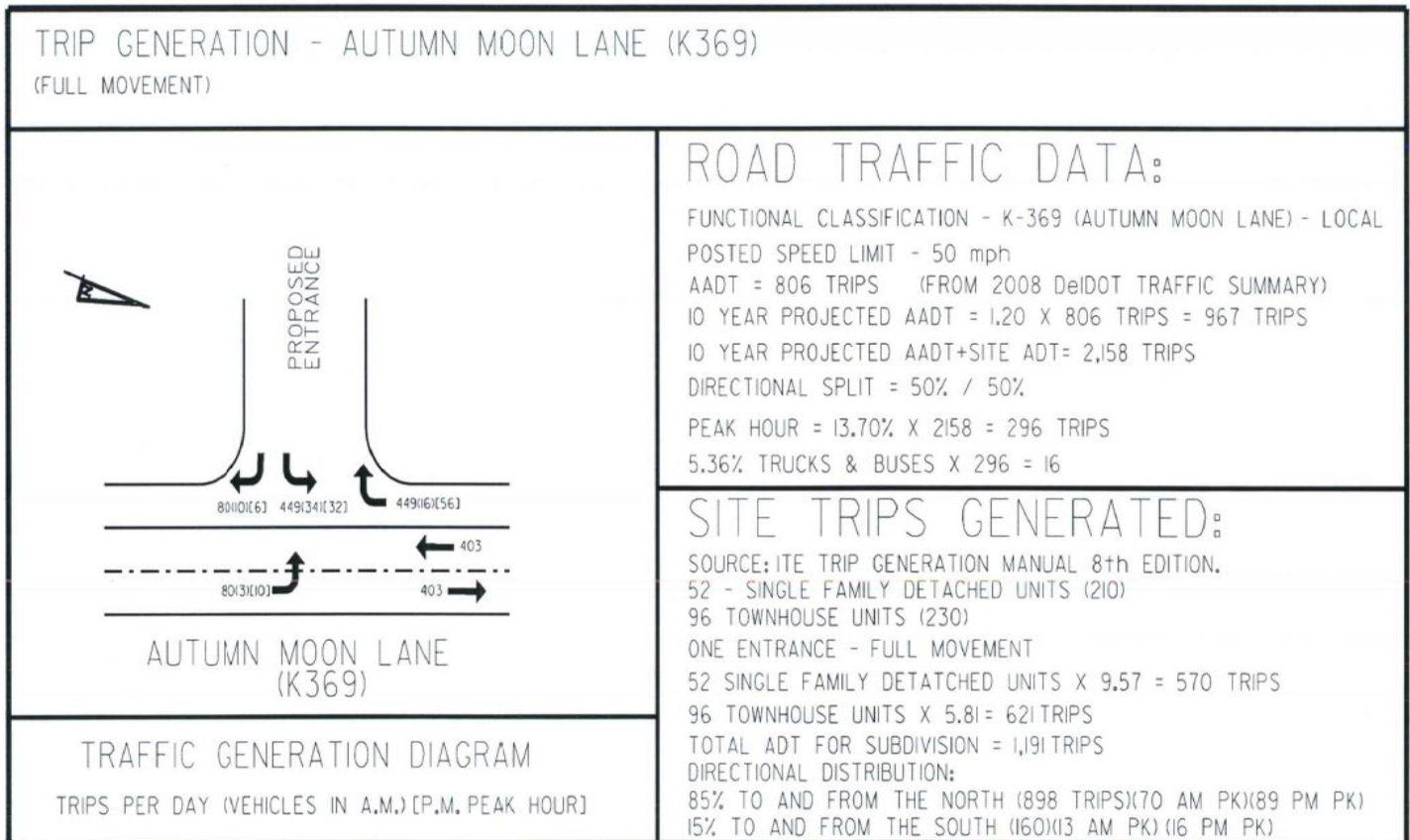
http://www.deldot.gov/information/pubs_forms/manuals/subdivisions/pdf/standards_and_regulations_031108.pdf



7. Traffic Generation Diagram

Solution – Provide a sample TGD showing turning volumes in ADT,(AM),[PM], volume of the frontage road, functional classification, trip generation, and posted speed limit.

Clarification– When calculating the ADT for a land use it is the total number of trips for the site. 1/2 of the ADT enters the site, 1/2 exits.



8. Shared Use Path striping and placement

Solution –Subdivision Manual - Page 95 section 5.1.6 figure 5-8.

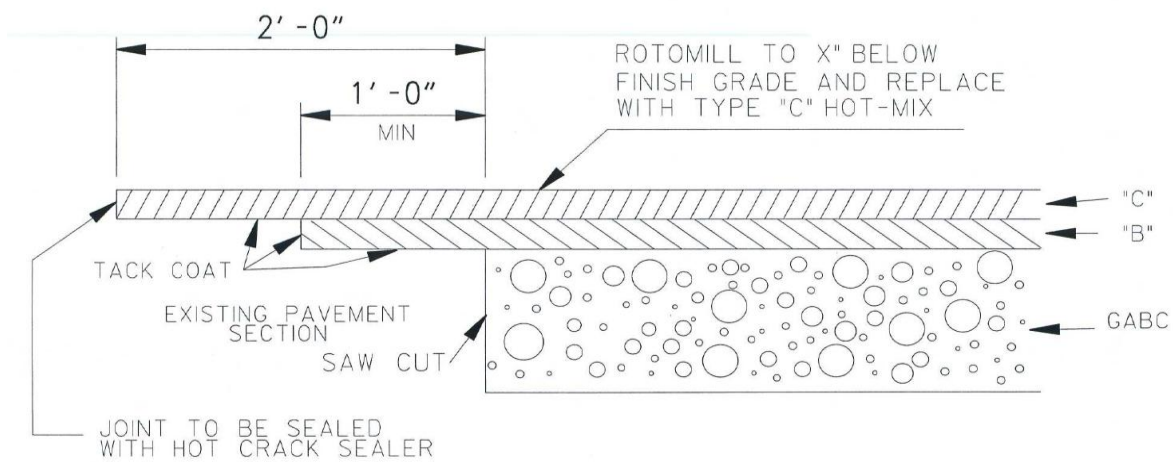
http://www.deldot.gov/information/pubs_forms/manuals/subdivisions/pdf/subdivision_manual_bookmarked_100209.pdf#top_ten_15.

Standard Construction details – page 9 see detail M-3 for layout.

http://www.deldot.gov/information/pubs_forms/const_details/2008/pdf/2008_standard_details_106-150.pdf?012909

9. Butt joint vs. pavement tie-in detail

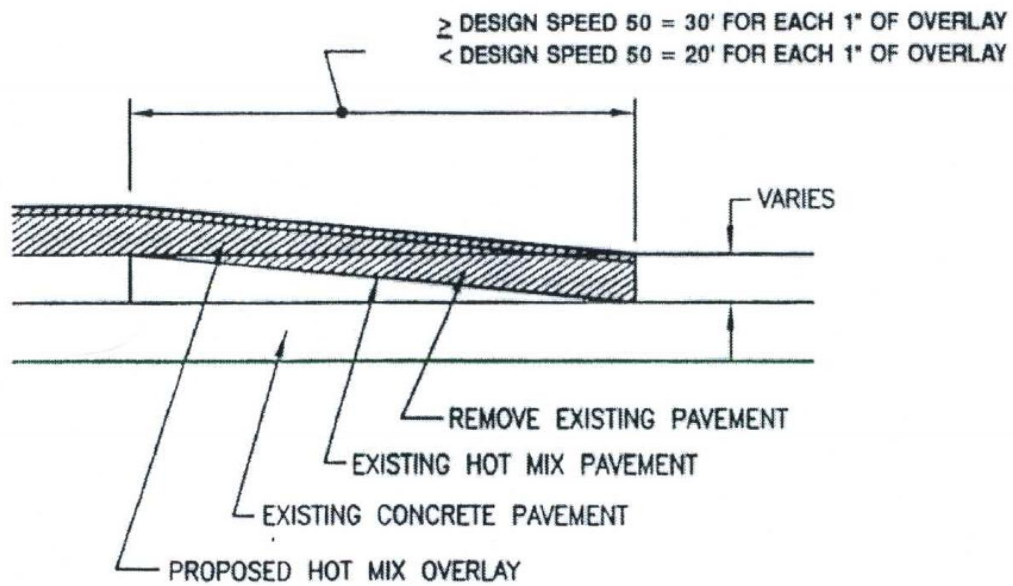
Solution – provide an example of each.



X = DEPTH OF TYPE "C" HOT-MIX

TYPICAL PAVEMENT TIE-IN DETAIL

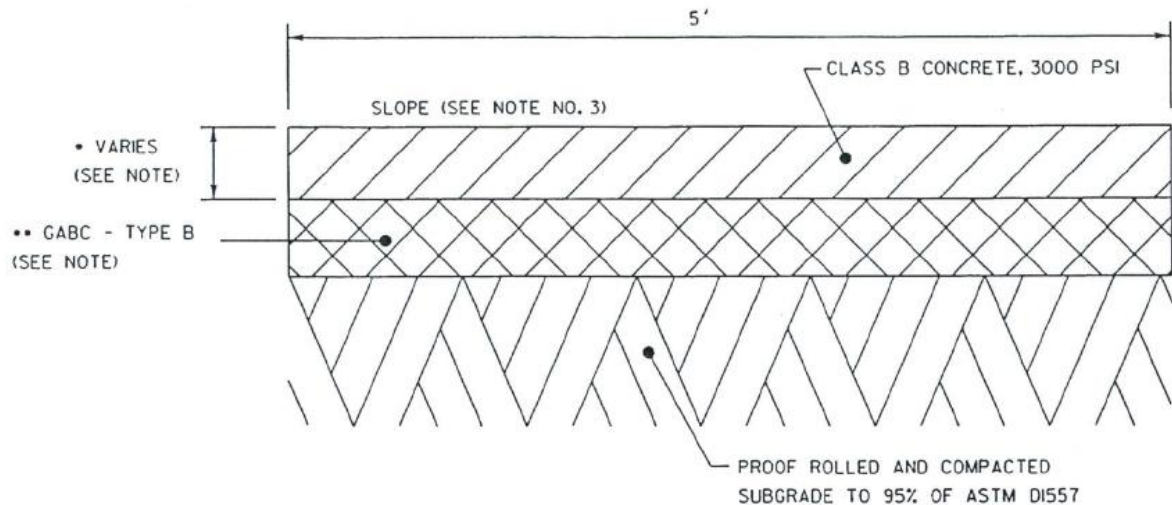
NOT TO SCALE



BUTT JOINT DETAIL

10. Sidewalk detail

Solution – provide an example.



- * - STANDARD SIDEWALK SHALL BE 4" THICK. FOR DEPRESSED AND TRANSITION AREA, THE SIDEWALK SHALL BE 6" THICK.
- ** - STANDARD SIDEWALK OF 4" THICKNESS SHALL BE PLACED OVER 4" GABC – TYPE B. SIDEWALK FOR DEPRESSED AND TRANSITION AREAS OF 6" THICKNESS SHALL BE PLACED OVER 6" GABC – TYPE B.

NOTES:

1. MARK IN 5' SQUARES, USE CORK EXPANSION JOINTS AT INTERVALS NOT GREATER THEN 20'.
2. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PER DELDOT SPECIFICATIONS.
3. SIDEWALK TO BE CONSTRUCTED AT GRADE. SLOPE OF SIDEWALK SHALL BE AT A 1.5% SLOPE WITH A 2% MAX/1% MIN IN ORDER TO ASSURE POSITIVE DRAINAGE.

SIDEWALK DETAIL

NOT TO SCALE

